

PTO/SB/08B(10-01)

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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/764,092
				Filing Date	January 23, 2004
				First Named Inventor	James Tour
				Group Art Unit	Unknown 3742
				Examiner Name	Unknown P. LEUNG
Sheet	1	of	4	Attorney Docket Number	122302.00012

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
WP		P.M. AJAYAN, M. TERRONES, A. DE LA GUARDIA, V. HUC, N. GROBERT, B.Q. WEI, H. LEZEC, G. RAMANATH, T.W. EBBESEN, Nanotubes in a Flash-Ignition and Reconstruction, Science, Vol. 296, pg. 705, April 26, 2002.		
WP		MICHAEL J. BRONIKOWSKI, PETER A. WILLIS, DANIEL T. COLBERT, K.A. SMITH, AND RICHARD E. SMALLLEY, Gas-Phase Production of Carbon Single-Walled Nanotubes from Carbon Monoxide via the HiPco Process: A Parametric Study, J. Vac. Sci. Technol. A 19(4), pgs. 1800-1805, Jul/Aug 2001.		
WP		I.W. CHIANG, B.E. BRINSON, A.Y. HUANG, P.A. WILLIS, M.J. BRONIKOWSKI, J.L. MARGRAVE, R.E. SMALLLEY, AND R.H. HAUGE, Purification and Characterization of Single-Wall Carbon Nanotubes (SWNTs) Obtained from the Gas-Phase Decomposition of CO (HiPco Process), J. Phys. Chem. B 2001, 105, pg. 8297-8301.		
WP		T.T.M. PALSTRA, R.C. HADDON AND K.B. LYONS, Electric Current Induced Light Emission From C ₆₀ , Carbon Vol. 55, No. 12, pp. 1825-1831, 1997.		
WP		M.C. GORDILLO, J. BORONAT AND J. CASULLERAS, Zero-Temperature Equation of State of Quasi-One-Dimensional H ₂ , Physical Review Letters, September 11, 2000, Volume 85, Number 11, pp. 2348-2351		
WP		V.V. KLIMOV, V.S. LETOKHOV, Hard X-Radiation Emitted by a Charged Particle Moving in a Carbon Nanotube, Physics Letters A 222, pg. 424-428, Nov. 18, 1998.		
WP		M. TERRONES, F. BANHART, N. GROBERT, J.C CHARLIER, H. TERRONES, AND P.M. AJAYAN, Molecular Junctions by Joining Single-Walled Carbon Nanotubes, Physical Review Letters, Vol. 89, No. 7, pgs. 075505-1 to 075505-4, August 12, 2002.		
WP		S.H. TSAI, C.T. SHIU, W.J. JONG, H.C. SHIH, The Welding of Carbon Nanotubes, Carbon 28 (2000), pg. 1899-1902.		
WP		RAY. H. BAUGHMAN, ANVAR A. ZAKHIDOV, WALT A. DE HEER, Carbon Nanotubes-The Route Toward Applications, Science Vol. 297, pgs. 787-792, August 2, 2002.		
WP		JAMES D. BROWNridge, What's In a Genome?, Nature, Vol. 358, pgs. 287-288, July 23, 1992.		
WP		KAILI JIANG, QUNQING LI, SHoushan FAN, Spinning Continuous Carbon Nanotube Yarns, Nature, Vol. 419, pg. 801, October 24, 2002.		

Examiner Signature	PHILIP H. LEUNG	Date Considered	3-31-2006
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ml		CYNTHIA MITCHELL, JEFFREY L. BAHR, SIVARAM AREPALLI, JAMES M. TOUR, AND RAMANAN KRISHNAMOORTI, Dispersion of Functionalized Carbon Nanotubes in Polystyrene, Macromolecules 2002, Vol. 35, pp. 8825-8830.		T ²
ml		YUCHEN MA, YUEYUAN XIA, MINGWEN ZHAO, RUIJIN WANG, AND LIANGMO MEI, Effective Hydrogen Storage in Single-Wall Carbon Nanotubes, Physical Review B, Vol. 63, pp. 115422-1 through 115422-6.		
ml		KAYLENE ATKINSON, SIEGMAR ROTH, MICHAEL HIRSCHER AND WERNER GRUNWALD, Carbon Nanostructures: An Efficient Hydrogen Storage Medium for Fuel Cells?, Fuel Cells Bulletin No. 38, pp. 9-12.		
ml		JERZY BERNHOLC, CHRISTOPHER ROLAND AND BORIS I. YAKOBSON, Nanotubes, Current Opinion in Solid State & Materials Science, 1997, 2, pgs. 708-715.		
ml		A.C. DILLON, K.M. JONES, T.A. BEKKEDAH, C.H. KLANG, D.S. BETHUNE AND M.J. HEBEN, Storage of Hydrogen in Single-Walled Carbon Nanotubes, Nature, Vol. 388, pgs. 377-379, March 27, 1997.		
ml		A.C. DILLON AND M.J. HEBEN, Hydrogen Storage Using Carbon Adsorbents: Past, Present and Future, Appl. Phys. A 72, pp. 133-142 (2001).		
ml		AKIHIKO FUJIWARA, KENJI ISHII, HIROYOSHI SUEMATSU, HIROMICHI KATAURA, YUTAKA MANIWA, SHINZOU SUZUKI, AND YOHJI ACHIBA, Gas Adsorption in the Inside and Outside of Single-Walled Carbon Nanotubes, Chemical Physics Letters 336, pp. 205-211, March 16, 2001.		
ml		O. GULSEREN, T. YILDIRIM AND S. CIRACI, Effects of Hydrogen Adsorption on Single-Wall Carbon Nanotubes: Metallic Hydrogen Decoration, Physical Review B 66, pp. 121401-1 through 121401-4 (2002).		
ml		O. GULSEREN, T. YILDIRIM, AND S. CIRACI, Tunable Adsorption on Carbon Nanotubes, Physical Review Letters, Vol. 87, No. 11, pgs. 116802-1 to 116802-4, September 10, 2001.		
ml		SCOTT HYNEK, WARE FULLER AND JEFFREY BENTLEY, Hydrogen Storage by Carbon Sorption, Int. J. Hydrogen Energy, Vol. 22, No. 6, pp. 601-610, 1997.		
ml		SEUNG MI LEE, Novel Mechanism of Hydrogen Storage in Carbon Nanotubes, Journal of the Korean Physical Society, Vol. 38, No. 6, pgs. 686-691, June 6, 2001.		

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ML		SEUNG MI LEE AND YOUNG HEE LEE, Hydrogen Storage in Single-Walled Carbon Nanotubes, Applied Physics Letters, Vol. 76, No. 20, pgs. 2877-2879, May 15, 2000.	
ML		MARCO BUONGIORNO NARDELLI, B.I. YAKOBSON AND J. BERNHOLC, Brittle and Ductile Behavior in Carbon Nanotubes, Physical Review Letters, Vol. 81, No. 21, pgs. 4656-4659, November 23, 1998.	
ML		S. ORIMO, T. MATSUSHIMA AND H. FUJII, Hydrogen Desorption Property of Mechanically Prepared Nanostructured Graphite, Journal of Applied Physics, Vol. 90, No. 3, pgs. 1545-1549, August 1, 2001.	
ML		T. OZAKI, Y. IWASA, AND T. MITANI, Stiffness of Single-Walled Carbon Nanotubes under Large Strain, Physical Review Letters, Vol. 84, No. 8, pgs. 1712-1715, February 21, 2000.	
ML		JEAN-PAUL SALVETAT, G. ANDREW D. BRIGGS, JEAN-MARC BONARD, REVATHI R. BACSA, ANDRZEJ J. KULIK, THOMAS STOCKLI, NANCY A. BURNHAM, AND LASZLO FORRO, Elastic and Shear Moduli of Single-Walled Carbon Nanotube Ropes, Physical Review Letters, Vol. 82, No. 5, pgs. 944-947, February 1, 1999.	
ML		MASASHI SHIRAISSI, TAISHI TAKENOBU, ATSUO YAMADA, MASAFUMI ATA, AND HIROMICHI KATAURA, Hydrogen Storage in Single-Walled Carbon Nanotube Bundles and Peapods, Chemical Physics Letters 358, pgs. 213-218, May 31, 2002.	
ML		QINYU WANG AND J. KARL JOHNSON, Molecular Simulation of Hydrogen Adsorption in Single-Walled Carbon Nanotubes and Idealized Carbon Slit Pores, Journal of Chemical Physics, Vol. 110, No. 1, pgs. 577-586, January 1, 1999.	
ML		Y. YE, C.C. AHN, C. WITHAM, AND B. FULTZ, Hydrogen Adsorption and Cohesive Energy of Single-Walled Carbon Nanotubes, Applied Physics Letters, Vol. 74, No. 18, pgs. 2307-2309, April 19, 1999.	
ML		T. YILDIRIM, O. GULSEREN, AND S. CIRACI, Exohydrogenated Single-Wall Carbon Nanotubes, Physical Review B, Vol. 64, pgs. 075404-1 through 075404-5, 2001.	
ML		H. CHENG, F. LI, G. SU, H. PAN, L. HE, X. SUN, M. DRESSELHAUS, Large-Scale and Low-Cost Synthesis of Single-Walled Carbon Nanotubes by the Catalytic Pyrolysis of Hydrocarbons, Applied Physics Letters, Vol. 72, No. 25, pgs. 3282-3284, June 22, 1998.	
ML		T.G. DIETZ, M.A. DUNCAN, D.E. POWERS, AND R.E. SMALLEY, Laser Production of Supersonic Metal Cluster Beams, J. Chem. Phys. Vol. 74, No. 11, pp. 6511-6512, June 1, 1981.	

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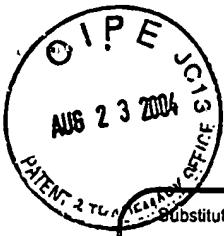
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PL		J.B.HOPKINS, P.R.R. LANGRIDGE-SMITH, M.D. MORSE, AND R.E. SMALLEY, Supersonic Metal Cluster Beams of Refractory Metals: Spectral Investigations of Ultracold Mo ₂ , J. Chem. Phys. Vol. 78, No. 4, February 15, 1983, pp. 1627-1637.			
PL		NORIAKI HAMADA, SHIN-ICHI SAWADA, ATSUSHI OSHIYAMA, New One-Dimensional Conductors: Graphitic Microtubules, Physical Review Letters, Vol. 68, NO. 10, pp. 1579-1581, March 9, 1992.			
PL		T. GUO, P. NIKOLAEV, A. THESS, D.T. COLBERT, R.E. SMALLEY, Catalytic Growth of Single-Walled Nanotubes by Laser Vaporization, Chemical Physics Letters 243, pp. 49-54, September 8, 1995.			
PL		UDO KAATZE, Microwave Dielectric Properties of Liquids, Radiat. Phys. Chem., Vol. 45, No. 4, pp. 549-566, 1995.			
PL		UDO KAATZE, Fundamentals of Microwaves, Radiat. Phys. Chem., Vol. 45, No. 4, pp. 539-548, 1995.			
PL		U.S. Serial No. 10/845,722 filed on 5/14/04 entitled "Process and Apparatus for Energy Storage and Release."			
PL		U.S. Serial No. 10/846,045 filed on 5/14/04 entitled "Improved Process and Apparatus for Energy Storage and Release."			

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Philip H. Long

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